|  | laims |  |
|--|-------|--|
|  |       |  |

| Application | Nο  |
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| Application | 140 |

09/816,697 Examiner

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Applicant(s)

LORENZ ET AL

Art Unit

Phillip Gambel

1644

√ Rejected
= Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

Non-Elected

I Interference

A Appeal
O Objected

|          |  | =        | A        | llo    | we            | d        |          |              | ÷        |          |  |  |  |
|----------|--|----------|----------|--------|---------------|----------|----------|--------------|----------|----------|--|--|--|
|          |  |          |          |        | _             |          |          |              |          |          |  |  |  |
| Cli      | aim<br>I   |          | _        | Г      | <del></del> ' | Dat      | e<br>T   | Г            | т        | $\vdash$ |  |  |  |
| Final    | Original   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                                  |          |          |        |               |          |          |              | Ľ        |          |  |  |  |
|          | 1  | _        |          |        |               |          |          |              | ├-       | $\vdash$ |  |  |  |
|          | <del> </del>   |          | -        |        |               |          |          |              | 1        | Н        |  |  |  |
|          | 5  |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 6  |          |          |        | _             |          | -        | -            |          | Н        |  |  |  |
| <u> </u> | 8  |          | _        | -      | -             | -        |          |              |          |          |  |  |  |
|          | 9  |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 10   |          |          |        | _             | _        | _        | _            | _        |          |  |  |  |
|          | 12   |          |          |        | -             | -        | -        | -            | $\vdash$ | Н        |  |  |  |
|          | 13<br>14<br>15<br>16<br>17<br>20<br>21<br>22<br>23<br>24                   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 14   |          |          |        |               |          |          |              |          |          |  |  |  |
| <u> </u> | 13   |          |          |        | _             |          |          | -            | _        | Н        |  |  |  |
| <u> </u> | 17   |          |          |        | -             |          | -        | -            | -        | $\vdash$ |  |  |  |
|          | 18   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 19   |          |          |        |               |          |          |              |          | $\vdash$ |  |  |  |
|          | 20<br>21   |          | -        |        |               | -        | _        | <del> </del> | -        | H        |  |  |  |
|          | 22   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 23   |          |          |        |               |          |          | _            |          |          |  |  |  |
|          | 94   |          | _        |        |               | -        | _        | -            | _        |          |  |  |  |
|          | 24<br>25<br>26   |          | _        |        |               |          | $\vdash$ | -            | -        | $\vdash$ |  |  |  |
|          | 27   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 28   | $\dashv$ |          |        |               | -        | _        | _            | _        | $\vdash$ |  |  |  |
|          | 30   | $\dashv$ | _        |        |               | <u> </u> | -        |              |          | Н        |  |  |  |
|          | 31   |          |          |        | -             |          |          |              |          |          |  |  |  |
|          | 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37             | _        |          |        |               |          |          |              |          | Ш        |  |  |  |
|          | 34   | -        | -        | -      |               |          |          | -            | -        | H        |  |  |  |
|          | 35   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | <b>3</b> 6   |          | _        |        |               |          |          |              | _        |          |  |  |  |
|          | 38   | _        |          | -      | _             |          |          |              | -        | H        |  |  |  |
|          | 39   |          |          |        |               |          | _        |              |          |          |  |  |  |
|          | 40   | $\Box$   | _        |        |               |          |          |              |          |          |  |  |  |
|          | 38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50 |          |          |        |               |          |          |              | _        | dash     |  |  |  |
|          | 43   | $\dashv$ | $\dashv$ | -      |               |          |          |              | -        | H        |  |  |  |
|          | 44   |          |          |        |               |          |          |              |          | 口        |  |  |  |
|          | 45   | $\dashv$ | _        |        |               |          |          |              |          | Щ        |  |  |  |
|          | 47   | $\dashv$ | $\dashv$ | -      |               | $\vdash$ |          | -            | H        | $\vdash$ |  |  |  |
|          | 48   |          |          |        |               |          |          |              |          |          |  |  |  |
|          | 49   | _        | $\dashv$ | $\Box$ |               | Ц        |          |              |          | Щ        |  |  |  |
|          | <b>5</b> (1)   |          |          |        |               |          |          |              |          |          |  |  |  |

|   |  | т-                |                |          |                  |                |              |  | _  |  |
|---|--|-------------------|----------------|----------|------------------|----------------|--------------|--|--|--|
| Cli   | aim  | -                 | _              | _        |                  | <u>Dat</u>     | e            | _  | _  |  |
| _   | ā  | 11/1/cd           |                |          |                  |                |              |  |  |  |
| Final   | Original   | 13                |                |          |                  |                |              |  |  |  |
| 正   | 5  | 1                 |                |          | 1                |                |              |  |  |  |
|   |  | 12                |                | 1        |                  | _              |              |  |  | Ĺ  |
|   | 51   | Ĺ                 |                |          |                  |                |              |  |  |  |
|   | 52   |                   |                |          |                  |                | П            |  |  |  |
|   | \$B  | T                 | Π              |          |                  |                | Т            |  | Г  |  |
|   | 54   | Π                 |                |          |                  |                | 1            | Ť  |  | 1  |
|   | 55   | T                 |                | 1        |                  |                | 1            | $\vdash$   | $\vdash$   | 1  |
|   | 51<br>52<br>58<br>54<br>55<br>56                               |                   |                | 1        | $\vdash$         | T              |              | T  | -  | Т  |
| (   | 57   | =                 |                | Τ-       | $\top$           | t              | t            | 1  | $\top$   | T  |
| 2-  | 57<br>58   | T                 | $t^-$          | T        | T                | †              | $\vdash$     | T  | ╁  | <del>                                     </del> |
| 2   | 59   | H                 | $^{\dagger}$   | ┢        | $\vdash$         | $t^-$          | ╁╴           | t  | +-   | 1  |
| 4   | 60   | ++                | -              | ╁        | ╁╴               | +              | ╁            | -  | +-   | <u> </u>   |
| +   | 60<br>61   | ╁                 | $\vdash$       | +        | 1                | $\vdash$       | 1            | +  | +-   | +  |
| 7   | 62   | ╁                 | ╁              | +        | +                | +              | 1            | +-   | $\vdash$   | -  |
| 7   | 62<br>63   | ╁                 | $\vdash$       | +        | -                | 1              | +            | <del> </del>                                     | <del> </del>                                     | $\vdash$   |
| 0   | 64   | ╫                 | -              | +        | $\vdash$         | $\vdash$       | $\vdash$     | $\vdash$   | -  | -  |
| 7 3 4 5 6 7 8 9 10 11 12 12 16 18 9 10 11 12 12 12 12 12 12 12 12 12 12 12 12 | 64<br>65<br>66   | ₩                 | $\vdash$       | $\vdash$ | -                | +-             | +-           | $\vdash$   | -  | -  |
| 4   | 60   | ₩                 | -              | $\vdash$ | $\vdash$         | ₩              |              | <del> </del>                                     | ₩  | <del>-</del>                                     |
| 10  | 00   | ++-               | <del> </del>   | -        | <del> </del>     | <del> </del> — | <u> </u>     | <del> </del>                                     | <u> </u>   | $\vdash$   |
| 1   | 67<br>68   | #                 | <del> </del> _ | ↓_       | ļ                | <del> </del>   | <u> </u>     | <u> </u>   | ļ.,  | ļ.,  |
| IV  | 68   | Н                 | <u> </u>       | ↓_       | <u> </u>         | <u> </u>       | 1            | _  | _  | <u> </u>   |
| 13  | 69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79 | Щ                 |                | _        | ↓_               | ļ              | <u> </u>     | _  | <u> </u>   | _  |
| 14  | 70   | Ш                 | <u> </u>       | <u> </u> | <u> </u>         |                |              |  |  |  |
| 15  | 71   | Ш                 |                |          | 乚                |                |              |  |  | <u> </u>   |
| 16  | 72   | Ш                 |                |          | L.,              |                |              |  |  |  |
| 17  | 73   | Ш                 |                |          |                  |                |              |  |  |  |
| 18  | 74   | П                 |                |          |                  |                |              |  |  |  |
| (9  | 75   | П                 |                |          | П                | Г              |              |  |  |  |
| 20  | 76   | П                 |                |          | Г                | П              | Π            |  |  |  |
| 21  | 77   | П                 |                |          |                  | 1              |              | П  |  |  |
| 12  | 78   | П                 |                | Ī        | Τ                |                | t            |  | Г  | _  |
| 43  | 79   | IT                |                | 1        |                  | 1              |              | 1  |  |  |
| 24  | 80   | H                 |                |          |                  | _              | m            |  |  | _  |
| US  | 81   | Ħ                 | T              |          |                  | $\vdash$       | 1            |  |  | _  |
| 26  | 82   | $\dagger \dagger$ | Ι-             | <u> </u> | 1                | $\vdash$       | $\vdash$     | $\vdash$   | <del>                                     </del> |  |
| 1,2   | 82<br>83<br>84<br>85   | +                 | Ι-             | -        | t-               | t              | <del> </del> | <del>                                     </del> | <del>                                     </del> | <u> </u>   |
| 1.9   | 84   | ╫                 | -              | Η-       |                  | $\vdash$       |              | -  | -  | -  |
| 10  | 85   | ╁┼                | -              | $\vdash$ | <del>  -  </del> | <del> </del>   | $\vdash$     | $\vdash$   |  | $\vdash$   |
| 20  | 86   | ╫                 |                | -        | ├                | -              | ├-           |  | -  | -  |
| 31  | 87   | ╫                 |                | -        | ├-               | <del> </del>   |              |  |  |  |
| 21  | 88   | ╫╴                | -              | ├-       | ├-               | ├-             | -            | -  | -  | -  |
| 22  | 89   | H                 | _              | -        | -                | -              | -            | <del>  -</del>                                   |  | $\vdash$   |
| 22  | 09   | ₩-                | -              | $\vdash$ | -                | <u> </u>       | $\vdash$     | ⊢  | -  | <u> </u>   |
| 24  | 90   | H                 | -              | ├-       | -                | -              | 1            | <u> </u>   | ├-   | ├  |
| 35  | 91   | H-                | $\vdash$       | -        | _                | _              |              | <u> </u>   | _  | _  |
| 36  | 92   | Н-                | <u> </u>       |          | <del> </del>     | <u>-</u>       | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u>   |
| 36<br>37<br>38<br>39  | 93   | 11-               | _              | _        | <u> </u>         | <u> </u>       | _            |  |  |  |
| 38  | 94   | $\coprod$         | L_             | <u> </u> |                  | <u> </u>       |              | <u> </u>   |  | <u></u>  |
| 39  | 95   | IL.               |                | _        |                  | _              | <u> </u>     |  |  |  |
| 40<br>41  | 96   | Ц_                |                |          | <u>_</u>         |                | L            |  | L  |  |
| 41  | 97   | L                 |                |          |                  |                |              |  |  |  |
| 47  | 98   | Ш                 |                |          |                  |                |              |  |  |  |
| 43  | 99   | Ш                 |                |          | L                |                |              |  |  |  |
| 44  | 100  | =                 |                |          |                  |                |              |  |  |  |

| Cla         | aim   | _        | _            |          |              | Dat          | e        |            |          |          |
|-------------|---|----------|--------------|----------|--------------|--------------|----------|------------|----------|----------|
|             |   | F/1404   |              | Т        | T            | Ĩ.           | Ť        | Т          | Τ        | Т        |
| <u>_</u>    | na  | 13       |              |          |              |              |          |            | İ        |          |
| Final       | Original  | 13       |              |          |              |              |          |            |          | i        |
|             |   | 1        |              |          |              |              |          |            |          |          |
| 41-         | 101<br>102<br>103<br>104<br>105<br>106                      | -        | ╁            | +-       | ╁╌           | $\vdash$     | $\vdash$ | +          | ┢        | 1        |
| 11.         | 102   | Ξ        | H            | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$ | ┼          | ┼-       | 1        |
| 1/1         | 102   | E        | ╁─           | ╁╾       | ╁            | ╁            | -        | -          | ╁        | $\vdash$ |
| 110         | 103   | =        | ├            | ┼        |              | $\vdash$     | ╁        | ╁          | ├-       | ╁─       |
| 40          | 105   | -        |              | ⊢        |              | $\vdash$     | +        |            | ├-       | $\vdash$ |
|             | 106   | -        |              | ├        | ╁            | +-           | ╁        | ┾╌         | ⊢        | $\vdash$ |
| _           | 107   | -        | -            | ┼        | ├            | ╁╌           | ╁        | -          | ├        | $\vdash$ |
|             | 108   | ┝        | -            | ╁        | Ͱ            | ╁            | +-       | ╁          | -        | $\vdash$ |
|             | 100   |          | -            | -        | ├            | ╁            | +-       | $\vdash$   | -        | Н        |
| -           | 109   | _        | <u> </u>     |          | ╀╌           |              | ╁        | ┼          | ├-       |          |
| -           | 110   | _        | <del> </del> | ┢        | ├-           | ╁            | ┼        | ⊢          | ╀        | $\vdash$ |
| $\vdash$    | 111   | -        | -            | ├-       | <del> </del> | ╁            | ┈        | -          | ├_       | Н        |
|             | 112   | <u> </u> | _            | _        | _            | 1            | 1-       | -          | ├        | $\vdash$ |
|             | 113   |          | _            | ┡        | $\vdash$     | -            | ┼        | _          | -        | Н        |
|             | 114   | <u> </u> | _            | -        | -            | <del> </del> | ╄        | ļ          | <u> </u> | Щ        |
|             | 115   | _        |              | <u> </u> | ┡            | -            |          | <u> </u>   | _        | Ш        |
|             | 116   |          | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>     | ļ        | <u> </u>   | <u> </u> | Ш        |
|             | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117 |          |              | _        | <u> </u>     | ļ_           | ــــ     | <b>!</b> _ | <u> </u> | $\sqcup$ |
|             | 118   |          | _            | _        | <u> </u>     | ↓_           | <u> </u> | <u> </u>   | <u> </u> |          |
|             | 119   |          |              | _        | _            |              | _        |            |          | Ш        |
|             | 120<br>121<br>122   | _        |              | _        | L            | <u> </u>     | _        | _          |          |          |
|             | 121   |          |              |          |              | L            |          | _          |          | Ш        |
|             | 122   |          | <u>.</u>     | <u></u>  |              |              |          |            |          | Щ        |
|             | 123<br>124<br>125<br>126<br>127<br>128<br>129               |          |              | L.       |              |              | _        | _          |          | Ш        |
|             | 124   |          |              |          |              |              | _        | _          |          |          |
|             | 125   |          |              | <u> </u> |              |              |          |            | _        | Ш        |
|             | 126   |          |              |          |              |              |          |            |          |          |
|             | 127   |          |              |          |              |              |          |            |          |          |
|             | 128   |          |              | L        |              | L            |          | L          | _        |          |
|             | 129   |          |              |          |              |              |          |            | L        |          |
|             | 130   |          |              | L        |              |              |          |            |          |          |
|             | 131<br>132  |          |              |          |              |              |          | L          |          |          |
|             | 132   |          |              |          |              |              |          |            |          |          |
|             | 133   |          |              | L        | L            | L            | L        |            |          |          |
|             | 134   |          |              |          |              |              |          |            |          |          |
| I           | 135   |          |              | L        | L            |              | L        | L          |          |          |
| $\Box$      | 136   |          |              |          |              |              | Ĺ        |            |          |          |
|             | 137<br>138  |          |              |          |              | L            |          |            |          |          |
|             | 138   |          |              |          |              |              |          |            |          |          |
| T           | 139   |          |              |          |              |              |          |            |          |          |
|             | 140   |          |              |          |              |              |          |            |          |          |
| T           | 141   |          |              |          |              |              |          |            |          |          |
|             | 142   |          |              |          |              |              |          |            |          |          |
|             | 143   |          |              |          |              |              |          |            |          |          |
|             | 144   |          |              |          |              |              |          |            |          |          |
|             | 145   |          | _            |          |              | Ι-           |          | П          |          |          |
|             | 146   |          |              |          |              | _            |          |            |          |          |
|             | 147   |          |              |          |              |              | $\vdash$ |            |          |          |
| $\neg \neg$ | 148   | $\dashv$ |              |          |              |              | -        |            |          |          |
|             | 149   |          |              | $\neg$   |              | _            | $\vdash$ | П          |          | $\neg$   |
|             | 150   | -        |              |          |              |              |          | Н          | $\vdash$ | $\dashv$ |
|             |   |          |              |          |              |              |          |            |          |          |